

India Collaborative Robot Market By Payload Capacity (Up to 5 Kg, Between 5 and 10 Kg, Above 10 Kg), By Application (Assembly, Pick & Place, Machine Tending, Others), By Industry (Automotive, Electronics, Metals & Machining, Plastics & Polymers, Others), By Region, Competition, Forecast & Opportunities, 2021-2031F

Market Report | 2025-07-14 | 85 pages | TechSci Research

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Report description:

Market Overview

India Collaborative Robot Market was valued at USD 148.82 Million in 2025 and is projected to reach USD 689.08 Million by 2031, growing at a CAGR of 29.10% during the forecast period. Collaborative robots, or cobots, are intelligent robotic systems designed to safely operate alongside human workers. Unlike conventional industrial robots, cobots feature built-in sensors, force control, and safety mechanisms that allow for direct human interaction without the need for protective enclosures. Their ease of programming, compact form factor, and multi-functional use cases make them particularly well-suited for India's dynamic small and medium enterprise (SME) ecosystem. Cobots are increasingly being adopted in diverse environments for tasks such as assembly, packaging, quality testing, and machine tending, driving rapid transformation across industries in the country.

Key Market Drivers

Surge in Manufacturing Automation and Industry 4.0 Adoption

India's manufacturing industry is rapidly integrating automation to enhance productivity, consistency, and competitiveness. Collaborative robots are emerging as a preferred automation solution due to their ability to operate safely alongside human workers, eliminating the need for protective barriers. Their flexibility allows easy reconfiguration across various tasks like assembly and material handling, making them ideal for small-batch production and space-constrained settings. As Indian manufacturing adopts Industry 4.0 technologies, cobots offer a cost-effective and scalable automation alternative that aligns with modern factory needs.

Key Market Challenges

High Initial Cost of Deployment and Integration

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Despite their operational benefits, collaborative robots entail high initial costs related to procurement, integration, and customization. Cobots often require application-specific end-effectors, safety tuning, and system integration with legacy machinery-leading to additional capital expenditure. For small and medium businesses in India, justifying these upfront investments without short-term ROI certainty is a challenge. The limited availability of leasing or tailored financing options further hinders adoption, especially for firms in cost-sensitive sectors or unorganized manufacturing clusters.

Key Market Trends

Rising Demand for Human-Robot Collaboration in Non-Traditional Sectors

Beyond traditional manufacturing, collaborative robots are gaining traction in sectors such as healthcare, pharmaceuticals, food processing, and education. These industries benefit from cobots' compact size, flexibility, and ability to work in shared spaces. Applications such as lab automation, surgical assistance, food packaging, and classroom demonstrations are creating new opportunities for cobot deployment. This sectoral diversification is driving partnerships between OEMs and specialized system integrators, while also encouraging local startups to develop industry-specific cobot solutions tailored to Indian market needs.

Key Market Players

- Universal Robots A/S
- ABB Ltd.
- KUKA AG
- FANUC Corporation
- YASKAWA Electric Corporation
- Techman Robot Inc.
- AUBO (Beijing) Robotics Technology Co., Ltd.
- Doosan Robotics Inc.

Report Scope:

In this report, the India Collaborative Robot Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- India Collaborative Robot Market, By Payload Capacity:

- o Up to 5 Kg
- o Between 5 and 10 Kg
- o Above 10 Kg

- India Collaborative Robot Market, By Application:

- o Assembly
- o Pick & Place
- o Machine Tending
- o Others

- India Collaborative Robot Market, By Industry:

- o Automotive
- o Electronics
- o Metals & Machining
- o Plastics & Polymers
- o Others

- India Collaborative Robot Market, By Region:

- o South India
- o North India
- o West India
- o East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Collaborative Robot Market.

Available Customizations:

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India Collaborative Robot Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Formulation of the Scope
 - 2.4. Assumptions and Limitations
 - 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
 - 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
 - 2.7. Methodology Followed for Calculation of Market Size & Market Shares
 - 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, and Trends
4. Voice of Customer
5. India Collaborative Robot Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Payload Capacity (Up to 5 Kg, Between 5 and 10 Kg, Above 10 Kg)
 - 5.2.2. By Application (Assembly, Pick & Place, Machine Tending, Others)
 - 5.2.3. By Industry (Automotive, Electronics, Metals & Machining, Plastics & Polymers, Others)
 - 5.2.4. By Region (South India, North India, West India, East India)
 - 5.2.5. By Company (2025)
 - 5.3. Market Map
6. South India Collaborative Robot Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value

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- 6.2. Market Share & Forecast
 - 6.2.1. By Payload Capacity
 - 6.2.2. By Application
 - 6.2.3. By Industry
- 7. North India Collaborative Robot Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Payload Capacity
 - 7.2.2. By Application
 - 7.2.3. By Industry
- 8. West India Collaborative Robot Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Payload Capacity
 - 8.2.2. By Application
 - 8.2.3. By Industry
- 9. East India Collaborative Robot Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Payload Capacity
 - 9.2.2. By Application
 - 9.2.3. By Industry
- 10. Market Dynamics
 - 10.1. Drivers
 - 10.2. Challenges
- 11. Market Trends & Developments
 - 11.1. Merger & Acquisition (If Any)
 - 11.2. Product Launches (If Any)
 - 11.3. Recent Developments
- 12. Policy and Regulatory Landscape
- 13. India Economic Profile
- 14. Company Profiles
 - 14.1. Universal Robots A/S
 - 14.1.1. Business Overview
 - 14.1.2. Key Revenue and Financials
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel/Key Contact Person
 - 14.1.5. Key Product/Services Offered
 - 14.2. ABB Ltd.
 - 14.3. KUKA AG
 - 14.4. FANUC Corporation
 - 14.5. YASKAWA Electric Corporation
 - 14.6. Techman Robot Inc.
 - 14.7. AUBO (Beijing) Robotics Technology Co., Ltd.

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- 14.8. Doosan Robotics Inc.
15. Strategic Recommendations
16. About Us & Disclaimer

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